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THE ELECTROMAGNETICALLY-GENERATED
PROPULSION AND DEFENSIVE MEASURES

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METHOD AND DEVICE FOR VALIDATION OF THE ELECTROMAGNETICALLY-GENERATED PROPULSION AND DEFENSIVE MEASURES

TECHNICAL FIELD

The technical field of this disclosure represents methods and devices for the validation of electromagnetically-generated propulsion and defensive measures, specifically the electromagnetically-generated propulsion for a self-propelled craft in modified spacetime and the electromagnetically-generated defensive measures that include non-observability at true position combined with the pseudosignals and pseudoimages.

BACKGROUND OF THE INVENTION

There are methods known of converting electromagnetism into a propulsive force that potentially generates a large propulsive thrust. According to these methods, the machine thrust is produced by rotating and reciprocating masses in the following ways: centrifugal thrust, momentum thrust and impulse thrust. ("To the Stars by Electromagnetic Propulsion", M.T. French, <http://www.mtjf.demon.co.uk/antigravp2.htm#cforce>, 9 pages, 6 figures).

However, the electromagnetic propulsion in an ambient space, or space not artificially modified, is not practical for interstellar travel because of the great distances involved. No interstellar travel is feasible without some form of distortion of space. In turn, no alteration of space is possible without the corresponding deformation of time. Very large intergalactic distances can be

reduced to conventional planetary distances under sufficient local energies, that is, energies available in the spacecraft.

Electromagnetic origin of mass is a core of the contemporary particle physics. There is a strong reason to believe that the electromagnetic field could cause changes in the mass's most profound quality – gravity.

The existence of a magnetic-like gravitational field has been well established by physicists for general relativity, gravitational theories, and cosmology. But this phenomenon is not yet well investigated in the other areas of physical science.

In the US Patent No. 3,626,605, Henry Wm. Wallace describes an experimental apparatus for generating and detecting a secondary gravitational field. He also shows how a time varying gravitomagnetic field can be used to shield the primary background of a gravitoelectric field.

In the US Patent No. 3,626,606, Henry Wm. Wallace provides a variation of his earlier experiment. A type III-V semiconductor material, of which both components have unpaired nuclear spin, is used as an electronic detector for the gravitomagnetic field. The experiment demonstrates that the material in his gravitomagnetic field circuit has hysteresis and remanence effects analogous to magnetic materials.

In the US Patent No. 3,823,570, Henry Wm. Wallace provides an additional variation of his experiment. Wallace demonstrates that by aligning the nuclear spin of materials having an odd number of nucleons, order is created in the material, resulting in a change in specific heat.

In the yearly 90's, Li and Torr have described the method and means for conversion of the electromagnetic field into a gravitomagnetic field. ("Effects of a Gravitomagnetic Field on Pure Superconductors", N. Li and D.G. Torr, Physical Review, Volume 43, Page 457, 3 pages, 15 January 1991).

The reports of Evgeny Podkletnov that above a levitating, rotating superconductive disk exposed to high frequency magnetic fields gravity is modified, substantially support the expansion of Einsteinean physics offered by Li & Torr. ("Weak Gravitational Shielding Properties of Composite Bulk $\text{YBa}_2\text{Cu}_3\text{O}_{(7-x)}$ Superconductor Below 70K Under E.M. Field", E. Podkletnov, LANL database number cond-mat/9701074, v. 3, 10 pages, 16 Sep 1997).

Gravity is the only tangible representation of the positive pressure of the inflationary vacuum state. If gravity is modified, the pressure of inflationary vacuum state is affected. But not only the pressure: analysing the reports on gravity modification, Podkletnov and Giovanni Modanese offered a theory as to why this effect could have occurred citing quantum gravitational effects: specifically, a local change to the cosmological constant. Cosmological constant, under ordinary circumstances, is the same everywhere. But, according to Podkletnov and Modanese, above a levitating, rotating superconductive disk exposed to high frequency magnetic fields, it is modified. ("Impulse Gravity Generator Based on Charged $\text{YBa}_2\text{Cu}_3\text{O}_{7-y}$ Superconductor with Composite Crystal Structure", Evgeny Podkletnov, Giovanni Modanese, arXiv.org/physics database, #0108005 volume 2, 32 pages, 8 figures, August 30, 2001).

If the local vacuum pressure and local cosmological constant are affected, the vacuum energy density is affected as well. According to the general relativity theory, the gravitational attraction is explained as the result of the curvature of spacetime being proportional to the gravitational constant. Thus, the change in the gravitational attraction of the vacuum's subatomic particles would cause a local anomaly in the curvature of the Einsteinian spacetime.

Time is the fourth dimension. Lorentz and Einstein showed that space and time are intrinsically related. Einstein hypothesized that time fluctuates both locally and universally. Time is also a force field. Some physicists believe that this field is represented by particles. The time particles, tachyons, are only detected at speeds above light speed. If such particles exist, they are extremely hard to observe since, at the subatomic level, time is many orders of magnitude weaker than the other forces. But the tachyon energy grows as its propagation speed declines approaching light-speed. Not just any light-speed: the light-speed of a locale. If the conditions of the locale were modified, this change would affect the local time rate as compared to the rate outside the affected locale, or the ambient rate. The electromagnetically-generated gravitomagnetic field could be one of such locale modifiers.

Ruggero Santilli, recognized for his expansions of relativity, has developed an isocosmology theory, which allows for variable rates of time. Since the relationship between gravity and time is experimentally verifiable with the current technology, Santilli has proposed that U.S. or European Space Agencies should send a probe equipped with suitable apparatus to a planet with a gravitational field sufficiently different than that of Earth, such as Jupiter, and verify whether or not time there flows in the same way as that on Earth.

A conclusion could be made that gravity, time and space could conceivably be altered by the application of electromagnetic force to a superconductor.

The levitating and rotating superconductor disk, which Podkletnov used to reportedly protect the object of experiment from the attraction produced by the energy of the vacuum, was an externally-powered and externally-energized object. Thus, the Podkletnov's system is stationary by definition and not suitable for travel in air or space. Furthermore, the Podkletnov's apparatus is incapable of modifying gravity all around the rotating superconductor disk continuously because the spacetime curvature distortion would immediately disconnect the flow of energy from the external source. Thus, this particular device may only be capable of creating a spacetime curvature anomaly that is adjacent to the disk but and cannot provide the electromagnetically-generated propulsion in modified spacetime to a self-propelled craft. Only modification of the spacetime curvature around the spacecraft would allow the spacecraft to approach the light-speed characteristic for the modified locale, this light-speed, when observed from a location in the ambient space, potentially many times higher than the ambient's light-speed.

In a recent (2002) article, Chris Y. Taylor and Modanese propose to employ an impulse gravity generator directing, from an outside location, an anomalous beam toward a spacecraft, this beam acting as a repulsive force field producing propulsion for the spacecraft. ("Evaluation of an Impulse Gravity Generator Based Beamed Propulsion Concept", Chris Y. Taylor and Giovanni Modanese, American Institute of Aeronautics and Astronautics, Inc., 2002, 21 pages, 10 figures). The authors of the article, however, didn't take into account the powerful

quantized processes of field dispersion, which would greatly limit the distance of propagation of the repulsive force. At best, the implementation of this concept can assist in acceleration and deceleration at short distances from the impulse gravity generator and only along the straight line of travel. If the travel goal is space exploration or defence mission rather than the shuttle-like commute, the proposed system is of little use.

Achieving a low observability of the military craft has been the goal of the military craft designers ever since the WWI. Producing pseudosignals to confuse the enemy equipment has been another goal. A complete non-observability of the craft, at current, is considered to be an unattainable. While the inflatable air balloons and metallic foil have produced pseudosignals detectable on such equipment as radars, the generation of pseudoimages confusing a live observer so far has not been accomplished.

However, if a local anomaly in the curvature of the Einsteinean spacetime is created, because of the contraction and dilution of space and time, the affected objects would appear to be shifted in space and time, when observed from the unaffected locale. Likewise, the objects in an unaffected locale would appear to be shifted when they are observed from within the spacetime anomaly. This phenomenon opens up new opportunities for the use of the spacetime modification for the defensive purposes.

BACKGROUND OF INVENTION: OBJECTS AND ADVANTAGES

There are two main objects of this invention: (1) validating the possibility of creating a self-propelled craft capable of spacetime curvature modification, and (2) validating the possibility of creating a craft non-observable at a true position while capable of extending defensive measures.

Propulsion and defensive capabilities are not the same thing but both are the useful traits of a craft capable of the electromagnetically-generated spacetime curvature modification.

There are two additional objects of this invention, one regarding the method, and the other regarding a device, the device being an experimental self-propelled craft possibly capable of travel in modified spacetime, hereinafter a test vehicle.

The first additional object is to provide the optimal method for a convincing validation of the possibility of electromagnetic modification of the spacetime curvature and propulsion in this modified spacetime, as well as the electromagnetically-generated defensive measures.

The second additional object of this invention is the development of the test vehicle for the validation of the possibility of electromagnetically-generated modification of spacetime curvature, propulsion in this modified spacetime, and the defensive measures using the spacetime curvature fluctuations electromagnetically generated by the test vehicle.

The advantages of this invention are in the important practical applications that would become possible in the case of a positive outcome of the validation process. The main future application for the test vehicle is the use as a spacecraft for interstellar travel. Another future application for the test vehicle is the use as a military craft.

SUMMARY OF THE INVENTION

This invention concerns methods and devices for the validation of electromagnetically-generated propulsion in modified spacetime and the electromagnetically-generated defensive measures where non-observability at true position is combined with the pseudosignals and pseudoimages. The validation process is accomplished by creating spacetime distortions adjacent to, or around, the test vehicle by the internally-powered, internally-generated and internally-controlled electromagnetic field variably applied from within the test vehicle to the inside of the superconductive outer shell of the test vehicle, hereinafter an internally-energized 3D shield, for a subsequent conversion of the resulting electromagnetic flux into a gravitomagnetic force propagated outside the test vehicle.

If the theories on the electromagnetically-generated gravity reduction developed by Li & Torr are correct, and subsequent experiment reports published by Modanese and Podkletnov are reliable, this gravitomagnetic force would affect gravity outside the test vehicle. A change in the pressure of inflationary vacuum state would be complimented by the newly created modified spacetime area adjacent to, or around, the test vehicle. Within this area, the rate of time and

curvature of space would be dilated or contracted, as compared to the ambient's time and space.

If the spacetime imbalance were created around the test vehicle implemented as a spacecraft, the spacetime curvature being the same as gravity, then the gravity imbalance would push or pull this spacecraft forward. The modification of spacetime curvature would allow a spacecraft to approach the light-speed characteristic for the artificially-modified locale, this light-speed, when observed from a location in the ambient space, substantially higher than the ambient's light-speed of 299,792,458 meters per second. This is why the validation of the possibility of propulsion in modified spacetime could be a very important first step in the implementation of the dream of interstellar travel.

From the observation of astronomical objects affected by the proximity of black holes, it is known that images and signals, originated in the area of modified spacetime, are received as pseudosignals and pseudoimages at a non-modified locale, and vice versa. Pseudosignals are the signals that are detected by instruments as coming from a location that does not represent the true position of the object, and pseudoimages are the images that are visually observed as coming from a pseudolocation.

The test vehicle, executed as a military craft, having a spacetime-modification capability, would possess an inherent capability to confuse the hostile forces and their equipment as to its true position. This military craft would also be capable of masking the true position of the friendly forces and their equipment while generating pseudosignals and pseudoimages.

BRIEF DESCRIPTION OF THE PREFERRED EMBODIMENT

FIG. 1 is a diagram, presented as a perspective view, showing some of the physical processes resulting from a dynamic application of the electromagnetic field to an internally-energized 3D shield provided by the method and device of the current invention. Only one line of quantized vortices, shown out of scale, is presented for illustration purposes only.

FIGS. 2A & 2B show diagrams of substantially spherical spacetime anomalies associated with the lowered and elevated pressures of inflationary vacuum state, respectively, provided by the method and device of the current invention on the condition of existence of the electromagnetically-generated spacetime curvature modification.

FIGS. 3A, 3B & 3C show diagrams of substantially droplet-shaped spacetime anomalies associated with the lowered pressure of inflationary vacuum state, the elevated pressure of inflationary vacuum state, and the combination of both, respectively, provided by the method and device of the current invention, on the condition of existence of the electromagnetically-generated spacetime curvature modification.

FIGS. 4A & 4B show diagrams of substantially egg-shaped spacetime anomalies associated with the lowered pressure of inflationary vacuum state and the elevated pressure of inflationary vacuum state, respectively, provided by the method and device of the current invention, on the condition of existence of the electromagnetically-generated spacetime curvature modification.

FIG. 5 shows a diagram illustrating the method of verification of the electromagnetically-generated defensive measures, these measures provided with the method and device of the current invention on the condition of existence of the electromagnetically-generated spacetime curvature modification.

FIG. 6 is a cross-section view of the test vehicle provided by the method and device of the current invention, this test vehicle to be used in all stages of validation of electromagnetically-generated propulsion in modified spacetime and electromagnetically-generated defensive measures.

DRAWINGS REFERENCE NUMERALS

- 1 internally-energized 3D shield
- 2 test vehicle
- 3 quantized vortices of lattice ions
- 4 gravitomagnetic force vector
- 5 substantially spherical spacetime anomaly associated with the lowered pressure of inflationary vacuum state
- 6 substantially spherical spacetime anomaly associated with the elevated pressure of inflationary vacuum state

- 7 substantially droplet-shaped spacetime anomaly associated with the lowered pressure of inflationary vacuum state
- 8 substantially droplet-shaped spacetime anomaly associated with the elevated pressure of inflationary vacuum state
- 9 substantially egg-shaped anomaly associated with the lowered pressure of inflationary vacuum state
- 10 substantially egg-shaped spacetime anomaly associated with the elevated pressure of inflationary vacuum state
- 11 test subject in-place of the enemy observer
- 12 test vehicle pseudoimage provided by the spacetime anomaly associated with the lowered pressure of inflationary vacuum state
- 13 test vehicle pseudoimage provided by the spacetime anomaly associated with the elevated pressure of inflationary vacuum state
- 14 test equipment in-place of the enemy equipment
- 15 test vehicle pseudosignal provided by the spacetime anomaly associated with the lowered pressure of inflationary vacuum state
- 16 test vehicle pseudosignal provided by the spacetime anomaly associated with the elevated pressure of inflationary vacuum state

- 17 test equipment in-place of the friendly equipment
- 18 friendly forces' equipment pseudoimage provided by the spacetime
anomaly associated with the lowered pressure of inflationary vacuum state
- 19 friendly forces' equipment pseudoimage provided by the spacetime
anomaly associated with the elevated pressure of inflationary vacuum state
- 20 inner shield
- 21 rotating structure
- 22 means for the generation of electromagnetic field
- 23 lines of electromagnetic flux
- 24 flux modulation controller

DESCRIPTION OF THE PRESENTLY PREFERRED EMBODIMENT

This invention concerns a method and device for the validation of the use of electromagnetic field for modification of the pressure of inflationary vacuum state and spacetime curvature in such a way that the resulting anomalies provide for a high-speed self-propulsion of a test vehicle, and for its capability to execute defensive measures.

The specific objective is the verification of the feasibility of creating spacetime anomalies adjacent to, or around, the test vehicle by the electromagnetic field, applied from within the test vehicle in a variable and controllable manner, to an internally-energized 3D shield, with the electromagnetic flux causing in the internally-energized 3D shield exotic quantized processes resulting in the gravitomagnetic force propagated toward the outside the test vehicle. The verification is considered positive if the gravitomagnetic force causes changes in gravity, pressure of inflationary vacuum state, and spacetime curvature. The spacetime curvature is considered modified if time and space within the area of propagation of gravitomagnetic force are dilated or contracted, as compared to the ambient's time and space. The validation process comprises the following stages:

- verification of spacetime curvature modification;
- verification of the spacetime defence capabilities;
- verification of space propulsion;
- verification of propulsion in a modified spacetime.

FIG. 1 is a diagram, presented as a perspective view, showing some of the physical processes resulted from a dynamic application of electromagnetic field to an internally-energized 3D shield **1** from the inside of a test vehicle **2** provided by the method and device of the current invention. Even though the test vehicle **2**, in the preferred embodiment, has a pancake shape, a skilled in the art can conceive many other test vehicle shapes, all within the scope of this invention.

The dynamics of application of electromagnetic field to the internally-energized 3D shield **1** provide for quantized vortices of lattice ions **3** within the

superconductive ceramic of the internally-energized 3D shield **1**. Only one line of the quantized vortices of lattice ions **3**, shown out of scale, is shown for illustration purposes only. Each of the quantized vortices of lattice ions **3**, occurring in the internally-energized 3D shield **1**, would generate a gravitomagnetic force with a gravitomagnetic force vector **4** directed toward the outside of the test vehicle **2**.

Gravitomagnetic force causes exotic quantized processes in the vacuum's subatomic particles that include particle polarization, ZPF field defects, and matter-energy transformation per $E=mc^2$. One of the main objectives of this invention is to verify whether this gravitomagnetic force is capable of creating a controlled spacetime curvature anomaly in the area of its propagation.

FIG. 2A illustrates the implementation of the first step of the validation method of the current invention, specifically the verification of the spacetime curvature modification. The intent of execution of this step is the formation around the test vehicle **2** of a substantially spherical spacetime anomaly associated with the lowered pressure of inflationary vacuum state **5** provided by the propagation of an equally-distributed gravitomagnetic force outside the test vehicle **2**.

In the conclusion of implementation of this first step, the electromagnetically-generated spacetime curvature modification is considered to be verified if the time rate registered in the ambient area, or the area unaffected by the gravitomagnetic force, is different from the time rate registered within the area of propagation of gravitomagnetic force, and the substantially spherical spacetime anomaly associated with the lowered pressure of inflationary vacuum state **5** is formed.

FIGS. 2B illustrates the implementation of the next step of the validation method of the current invention, this step also being the verification of the spacetime curvature modification. The intent of execution of this step is to form around the test vehicle **2** a substantially spherical spacetime anomaly associated with the elevated pressure of inflationary vacuum state **6** provided by propagating an equally-distributed gravitomagnetic force outside the test vehicle **2**.

In the conclusion of implementation of this step, the electromagnetically-generated spacetime curvature modification is considered to be verified if the time rate registered in the ambient area is different from the time rate registered within the area of propagation of gravitomagnetic force, and the substantially spherical spacetime anomaly associated with the elevated pressure of inflationary vacuum state **6** is formed.

FIG. 3A illustrates the implementation of still another step of the validation method of the current invention. The intent of the execution of this step is to form a substantially droplet-shaped spacetime anomaly associated with the lowered pressure of inflationary vacuum state **7** generated by the gravitomagnetic force being propagated in-front of the test vehicle **2** with the goal of verification of the electromagnetically-generated propulsion in space.

In the conclusion of implementation of this step, the electromagnetically-generated space propulsion is considered to be verified if the difference between the spacetime curvature within the substantially droplet-shaped spacetime anomaly associated with the lowered pressure of inflationary vacuum state **7**, and the ambient's spacetime curvature, the spacetime curvature being the same as

gravity, results in the gravitational imbalance, with gravity pulling the test vehicle 2 forward in space.

FIG. 3B illustrates the implementation of the next step of the space propulsion verification method of the current invention. The intent of the execution of this step is to form a substantially droplet-shaped spacetime anomaly associated with the elevated pressure of inflationary vacuum state 8 generated by the gravitomagnetic force being propagated behind the test vehicle 2.

In the conclusion of implementation of this step, the electromagnetically-generated space propulsion is verified if the difference between the spacetime curvature within the substantially droplet-shaped spacetime anomaly associated with the elevated pressure of inflationary vacuum state 8, and the ambient's spacetime curvature, the spacetime curvature being the same as gravity, results in the gravitational imbalance, with antigravity pushing the test vehicle 2 forward in space.

FIG. 3C illustrates the implementation of the next step of the space propulsion verification method of the current invention. The intent of the execution of this step is to form the substantially droplet-shaped spacetime anomaly associated with the lowered pressure of inflationary vacuum state 7, generated by the gravitomagnetic force propagated in-front of the test vehicle 2, combined with the substantially droplet-shaped spacetime anomaly associated with the elevated pressure of inflationary vacuum state 8, generated by the gravitomagnetic force propagated behind the test vehicle 2.

In the conclusion of implementation of this step, the electromagnetically-generated space propulsion is verified if the difference between the spacetime curvature within the substantially droplet-shaped spacetime anomaly associated with the lowered pressure of inflationary vacuum state **7**, and the spacetime curvature of the substantially droplet-shaped spacetime anomaly associated with the elevated pressure of inflationary vacuum state **8**, the spacetime curvature being the same as gravity, results in the gravitational imbalance, with gravity pulling, and antigravity pushing, the test vehicle **2** forward in space.

FIG. 4A illustrates the implementation of the next step of the validation method of the current invention. The intent of execution of this step is to form a substantially egg-shaped spacetime anomaly associated with the lowered pressure of inflationary vacuum state **9** generated by the unequally-distributed gravitomagnetic force propagated all around the test vehicle **2**, where the anomaly's lowest pressure of inflationary vacuum state is located directly in-front of the test vehicle **2**. The purpose of this step is to verify the electromagnetically-generated propulsion in modified spacetime, arguably the most important goal of this invention because the successful outcome would open doors to interstellar travel.

In the conclusion of implementation of this step, the electromagnetically-generated propulsion in modified space is verified if the variation in the spacetime curvature within the substantially egg-shaped spacetime anomaly associated with the lowered pressure of inflationary vacuum state **9**, the spacetime curvature being the same as gravity, results in the gravitational imbalance, with gravity pulling the test vehicle **2** forward in modified spacetime at speeds possibly approaching the

light-speed for this modified area which may be much higher than the light-speed in a non-modified, or ambient, area.

FIG. 4B illustrates the implementation of the next step, also the verification of the propulsion in modified spacetime. The intent of the execution of this step is to form a substantially egg-shaped spacetime anomaly associated with the elevated pressure of inflationary vacuum state **10** generated by the unequally-distributed gravitomagnetic force being propagated all around the test vehicle **2**, where the anomaly's highest pressure of the inflationary vacuum state is located directly behind the test vehicle **2**.

In the conclusion of implementation of this step, the electromagnetically-generated propulsion in modified space is verified if the variation in the spacetime curvature within the substantially egg-shaped spacetime anomaly associated with the elevated pressure of inflationary vacuum state **10**, the spacetime curvature being the same as gravity, results in the gravitational imbalance, with antigravity pushing the test vehicle **2** forward in modified spacetime at speeds possibly approaching the light-speed for this modified area which may be much higher than the light-speed in the ambient area.

FIG. 5 illustrates the implementation of another step of the validation method of the current invention. The intent of the execution of this step is the verification of the test vehicle's capability to execute defensive measures, this capability provided by the method and device of the current invention on the condition of existence of the electromagnetically-generated spacetime curvature modification.

According to the preferred method of this invention, the test vehicle **2** electromagnetically generates a pulsating gravitomagnetic force over the selected area of hostile activity with the intent to alternate, at a controlled frequency, the substantially droplet-shaped spacetime anomaly associated with the lowered pressure of inflationary vacuum state **7**, and the substantially droplet-shaped spacetime anomaly associated with the elevated pressure of inflationary vacuum state **8**.

The diagram shows the test results representing a positive outcome of the verification process: the test vehicle **2**, which is non-observable at its true position by a test subject in-place of the enemy observer **11**, is surrounded from both sides by two pseudoimages: a test vehicle pseudoimage provided by the spacetime anomaly associated with the lowered pressure of inflationary vacuum state **12**, and a test vehicle pseudoimage provided by the spacetime anomaly associated with the elevated pressure of inflationary vacuum state **13**.

Furthermore, the test vehicle **2**, undetectable at its true position by a test equipment in-place of the enemy equipment **14**, the test equipment in-place of the enemy equipment **14** being a radar and other detecting equipment, generates a test vehicle pseudosignal provided by the spacetime anomaly associated with the lowered pressure of inflationary vacuum state **15**, and a test vehicle pseudosignal provided by the spacetime anomaly associated with the elevated pressure of inflationary vacuum state **16**.

A positive verification also results in the test subject in-place of the enemy observer **11** and the test equipment in-place of the enemy equipment **14** not observing or detecting at their true positions a test equipment in-place of the

friendly equipment **17**, the test equipment in-place of the friendly equipment **17** being military hardware, or test subjects in-place of friendly combatants not shown here. Instead, the test subject in-place of the enemy observer **11** and the test equipment in-place of the enemy equipment **14** are observing pseudoimages and detecting pseudosignals: a friendly forces' equipment pseudoimage provided by the spacetime anomaly associated with the lowered pressure of inflationary vacuum state **18** and a friendly forces' equipment pseudoimage provided by the spacetime anomaly associated with the elevated pressure of inflationary vacuum state **19**, as well as pseudoimages of test subjects in-place of friendly combatants, which are not shown.

A skilled in the art may visualize many additional variations different from the preferred method, but all within the scope of the current invention, such as: a different number of gravitomagnetic force impulse levels, their different frequency and intensity resulting in tripling, quadrupling, quintupling... etc. of pseudosignals and pseudoimages. Not only the number of pseudosignals and pseudoimages could be varied but also their location respectively to the true position could be changed abruptly or shifted continuously by the controlled changes of the electromagnetic input.

In order to minimize the ill-effects of projected anomalies on the friendly forces, a continuous corrective signal could be sent from the test vehicle to these friendly forces, this corrective signal rectifying in real time the distortions caused by the spacetime anomalies.

FIG. 6 is a cross-section view of the test vehicle **2** provided by the method and device of the current invention for all four stages of the validation of

electromagnetically-generated propulsion in modified spacetime and electromagnetically-generated spacetime defensive measures.

The internally-energized 3D shield **1** of the test vehicle **2** is executed from a superconductor such as $\text{YBa}_2\text{Cu}_3\text{O}_{7-y}$, or the like superconductor with the composite crystal structure cooled to the temperature of about 40 degrees K, the said internally-energized 3D shield **1** providing a protective outer shell around the test vehicle **2**. An inner shield **20**, disposed inside the internally-energized 3D shield **1** and executed from the insulation materials provides a protection for the crew and equipment from the electromagnetic field and severe temperatures.

A rotating structure **21**, in the preferred embodiment powered by an electric motor, is pivotably disposed between the inner shield **20** and the internally-energized 3D shield **1**. Even though the preferred embodiment shows a single rotating element, a skilled in the art may envision more than one independently rotating elements, all within the scope of this invention. Disposed on the rotating structure **21** are a means for the generation of electromagnetic field **22**, the means for the generation of electromagnetic field **22** being electromagnets or solenoids shown here with lines of electromagnetic flux **23**. A power source **24**, the power source **24** being, for example, a nuclear reactor, is disposed inside the inner shield **20**. A flux modulation controller **25**, the flux modulation controller **25** being a computer or microprocessor capable of modulating the individual parameters such as power and frequency of the means for the generation of electromagnetic field **22**, is also disposed inside the inner shield **20**.

The internally-generated electromagnetic field is controllably and variably applied, from the within the test vehicle **2**, to the internally-energized 3D shield **1**

with the resulting electromagnetic flux generating exotic quantized processes in the superconductive material of the internally-energized 3D shield 1 causing the gravitomagnetic force propagation toward the outside the test vehicle for the generation of quantum processes in the vacuum possibly resulting in the spacetime curvature modification.

Because this has been an untravelled road, it is difficult-to-impossible to make a definitive conclusion on the feasibility of the electromagnetically-generated propulsion in modified spacetime, or the electromagnetically-generated defensive measures, without conducting the above-described experiments. While I believe in the possibility of electromagnetically-generated propulsion in modified spacetime, I don't wish to be bound by this, and thereby would like to stress the usefulness and cost-effectiveness of the validation process and its rock-solid results regardless whether this process outcome is positive or negative.

In the case of a positive outcome, by creating alternative anomalies and modulating their parameters, the test vehicle's crew would dilate and contract time and space on-demand. The test vehicle, emitting a vacuum pressure-modifying, controllably-modulated gravitomagnetic force in all directions, would rapidly move in the uneven spacetime anomaly it created, pulled forward by gravity or pushed by antigravity.

The time rate zone of the anomaly is expected to have a gradual rather than sudden boundary affecting space and time in the immediate proximity to the vehicle. Speed, rate of time, and direction in space would be shifted on demand and in a rapid manner. Because of the time rate control, in their own isospace, the accelerations would be gradual and the angles of deviations would be smooth.

The gravity shielding would further protect pilots from the ill-effects of gravity during the rapid accelerations, directional changes and sudden stops. Other advantages include vertical lift-off and landing, combined atmospheric and space flight capability, as well as likely submarine and possible subterranean capability. In the case of a positive validation, the capability of executing defensive measures especially useful in a military combat or police action, could be inherent to the device of this invention.